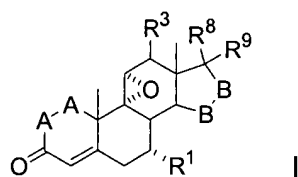


This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

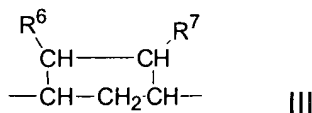
Claims 1-65. (cancelled).

Claim 66. (currently amended) A process for the formation of a compound of Formula I:



wherein -A-A- represents the group  $-\text{CHR}^4-\text{CHR}^5-$  or  $-\text{CR}^4=\text{CR}^5-$ ;

-B-B- represents the group  $-\text{CHR}^6-\text{CHR}^7-$  or an alpha- or beta-oriented group of Formula III:



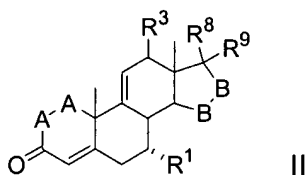
$\text{R}^1$  represents an  $\alpha$ -oriented lower alkoxy carbonyl or hydroxycarbonyl radical;

$\text{R}^3$ ,  $\text{R}^4$  and  $\text{R}^5$  are independently selected from the group consisting of hydrogen, halo, hydroxy, lower alkyl, lower alkoxy, hydroxyalkyl, alkoxyalkyl, hydroxy carbonyl, cyano, and aryloxy;

$\text{R}^6$  and  $\text{R}^7$  are independently selected from the group consisting of hydrogen, halo, lower alkoxy, acyl, hydroxyalkyl, alkoxyalkyl, hydroxycarbonyl, alkyl, alkoxy carbonyl, acyloxyalkyl, cyano, and aryloxy; and

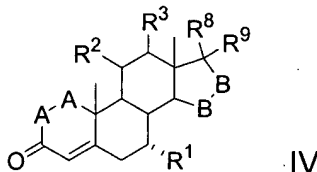
$\text{R}^8$  and  $\text{R}^9$  are independently selected from the group consisting of hydrogen, hydroxy, halo, lower alkoxy, acyl, hydroxyalkyl, alkoxyalkyl, hydroxycarbonylalkyl, alkoxy carbonylalkyl, acyloxyalkyl, cyano, and aryloxy, or  $\text{R}^8$  and  $\text{R}^9$  together comprise a carbocyclic or heterocyclic ring structure, or  $\text{R}^8$  or  $\text{R}^9$  together with  $\text{R}^6$  or  $\text{R}^7$  comprise a carbocyclic or heterocyclic ring structure fused to the pentacyclic D ring;

the process comprising epoxidizing ~~converting~~ a compound of Formula II  
~~to a compound of Formula I~~, said compound of Formula II having the structure:



wherein -A-A-, -B-B-, R<sup>1</sup>, R<sup>3</sup>, R<sup>8</sup> and R<sup>9</sup> are as defined above;

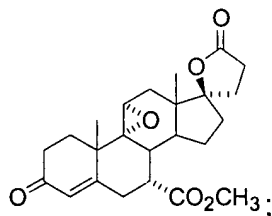
wherein preparation of said compound of Formula II comprises is  
~~prepared by~~ eliminating a leaving group from ~~converting~~ a compound of  
Formula IV ~~to a compound of Formula II~~, said compound of Formula IV having  
the structure:



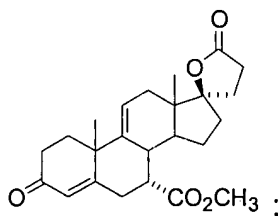
wherein -A-A-, -B-B-, R<sup>1</sup>, R<sup>3</sup>, R<sup>8</sup> and R<sup>9</sup> are as defined above, and R<sup>2</sup> is a  
leaving group the abstraction of which is effective for generating a double bond  
between the 9- and 11-carbon atoms.

Claim 67. (cancelled)

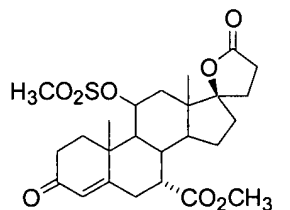
Claim 68. (previously presented) A process as set forth in claim 66 wherein said  
compound of Formula I is:



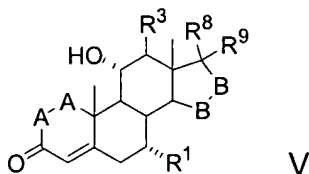
said compound of Formula II is:



and said compound of Formula IV is:



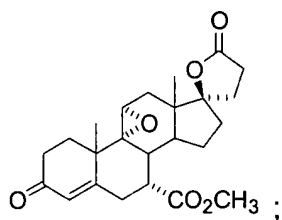
Claim 69. (currently amended) A process as set forth in claim 66 wherein **preparation of** the compound of Formula IV **comprises** ~~is prepared by~~ **esterifying or halogenating** ~~converting~~ a compound of Formula V to a compound of Formula IV, said compound of Formula V having the structure:



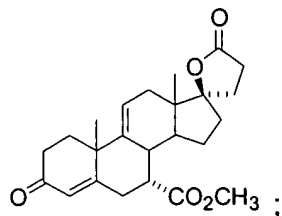
wherein -A-A-, -B-B-, R<sup>1</sup>, R<sup>3</sup>, R<sup>8</sup> and R<sup>9</sup> are as defined in claim 66.

Claims 70. -71. (cancelled)

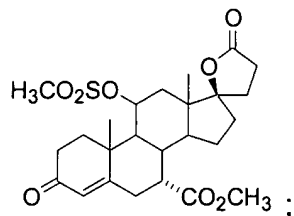
Claim 72. (previously presented) The process of claim 69 wherein said compound of Formula I is:



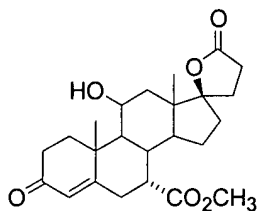
said compound of Formula II is:



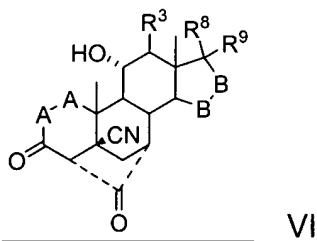
said compound of Formula IV is:



and said compound of Formula V is:



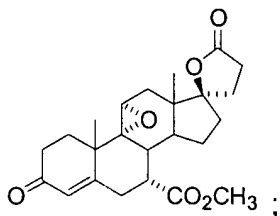
Claim 73. (currently amended) A process as set forth in claim 69 wherein **preparation of** the compound of Formula V **comprises** ~~is prepared by reacting~~ ~~converting~~ a compound of Formula VI **with a metal alkoxide** ~~to a compound of~~ ~~Formula V~~, said compound of Formula VI having the structure:



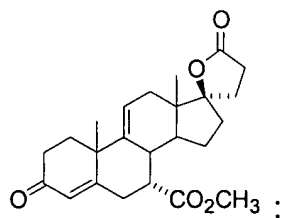
wherein -A-A-, -B-B-,  $\text{R}^3$ ,  $\text{R}^8$  and  $\text{R}^9$  are as defined in claim 69.

Claim 74. (cancelled)

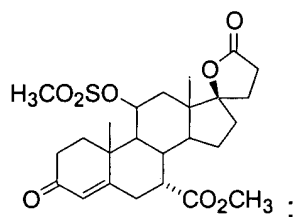
Claim 75. (currently amended) The process of claim 73 wherein said compound of Formula I is:



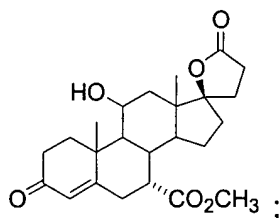
said compound of Formula II is:



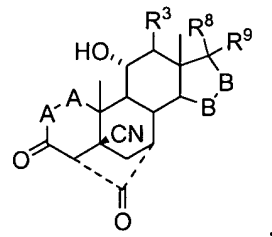
said compound of Formula IV is:



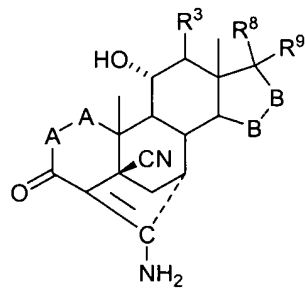
said compound of Formula V is:



and said compound of Formula VI is:



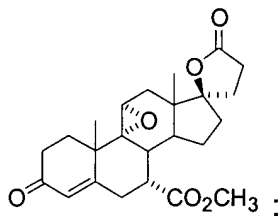
Claim 76. (currently amended) A process as set forth in claim 73 wherein **preparation of** the compound of Formula VI ~~is prepared by~~ **comprises** **hydrolyzing** ~~converting a compound of Formula VII to a compound of Formula VI,~~ said compound of Formula VII having the structure:



VII

wherein  $\text{-A-A-}$ ,  $\text{-B-B-}$ ,  $\text{R}^3$ ,  $\text{R}^8$  and  $\text{R}^9$  are as defined in claim 73.

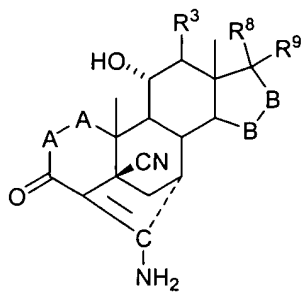
Claim 78. (currently amended) The process of claim 76 wherein said compound of Formula I is:



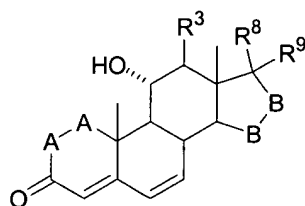
The chemical structure shows a steroid nucleus with a methyl ester group ( $\text{CO}_2\text{CH}_3$ ) at C-17 and a cyclopentanone ring at C-13. The ester group is attached with a dashed bond, and the cyclopentanone ring is attached with a solid wedge bond.

COC(=O)[C@H]1CC[C@@H]2[C@@]1(CC[C@H]3[C@H]2CC=C4[C@@]3(CC[C@@H](C4)C(=O)OC)C)CCCOC(=O)[C@H]1CC[C@@H]2[C@@]1(CC[C@H]3[C@H]2CC=C4[C@@]3(CC[C@@H](C4)O)C)C

7



Claim 79. (currently amended) A process as set forth in claim 76 wherein preparation of the compound of Formula VII comprises ~~is prepared by~~ cyanidating ~~converting~~ a compound of Formula VIII ~~to a compound of Formula VII~~, said compound of Formula VIII having the structure:

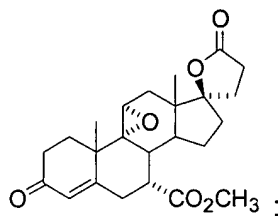


VIII

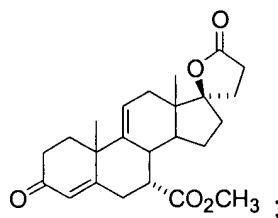
wherein -A-A-, -B-B-,  $R^3$ ,  $R^8$  and  $R^9$  are as defined in claim 76.

Claims 80. – 81. (cancelled)

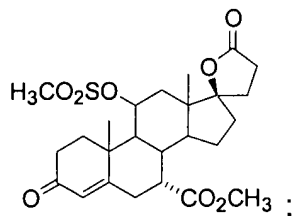
Claim 82. (currently amended) A process as set forth in claim 79 wherein said compound of Formula I is:



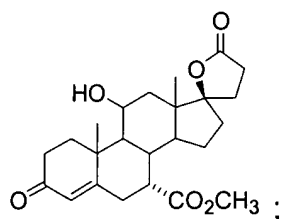
said compound of Formula II is:



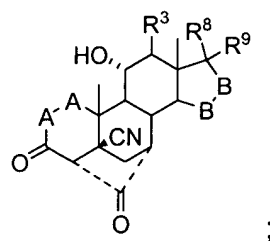
said compound of Formula IV is:



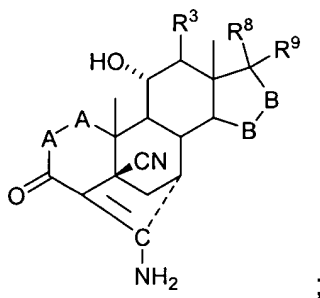
said compound of Formula V is:



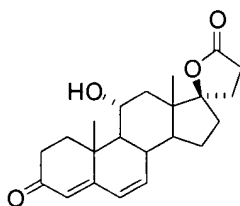
said compound of Formula VI is:



said compound of Formula VII is:

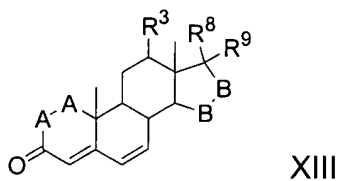


and said compound of Formula VIII is:



Claim 83. (currently amended) A process as set forth in claim 79 wherein **preparation of** the compound of Formula VIII **comprises** is prepared by **hydroxylating** converting a compound of Formula XIII to a compound of Formula VIII, said compound of Formula XIII having the structure:

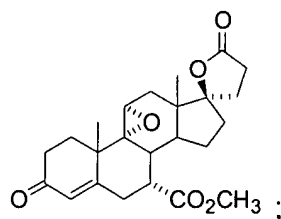




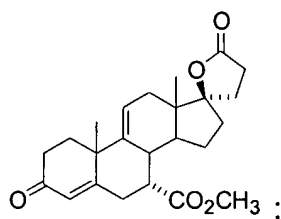
wherein -A-A-, -B-B-,  $R^3$ ,  $R^8$  and  $R^9$  are as defined in claim 79.

Claims 84. - 85 (cancelled)

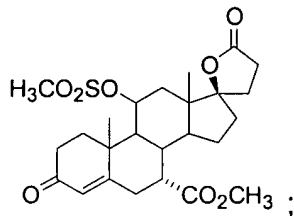
Claim 86. (currently amended) A process as set forth in claim 83 wherein said compound of Formula I is:



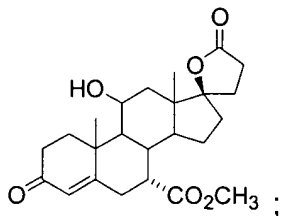
said compound of Formula II is:



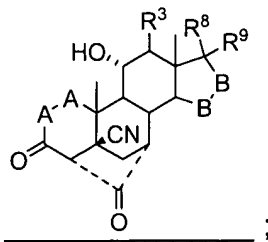
said compound of Formula IV is:



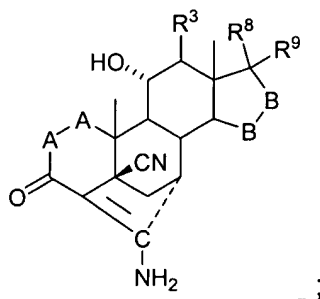
said compound of Formula V is:



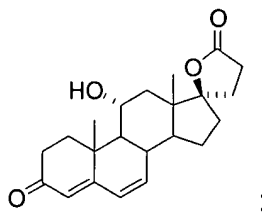
said compound of Formula VI is:



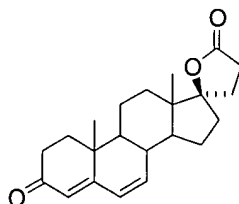
said compound of Formula VII is:



said compound of Formula VIII is:



and said compound of Formula XIII is:



Claims 87. – 93. (cancelled)

Claim 94. (currently amended) A process as set forth in claim 66 wherein said **epoxidation** ~~conversion~~ of a compound of Formula II ~~to a compound of Formula I~~ is effected by **comprises** contacting an epoxidizing reagent with a compound of Formula II.

Claim 95. (currently amended) A process as set forth in claim 66 wherein **elimination of** said **leaving group from** ~~conversion~~ of a compound of Formula

IV to ~~form~~ a compound of Formula II is effected by comprises removing an 11 $\alpha$ -leaving group from a compound of Formula IV.

Claim 96. (currently amended) A process as set forth in claim 69 wherein said esterification or halogenation ~~conversion of a compound of Formula V to a compound of Formula IV is effected by~~ comprises reacting a lower alkylsulfonylating or acylating reagent or a halide generating agent with a compound of Formula V.

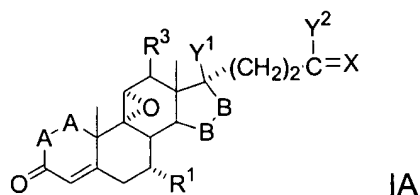
Claim 97. (currently amended) A process as set forth in claim 73 wherein said reaction ~~conversion of a compound of Formula VI~~ with a metal alkoxide ~~to a compound of Formula V is effected by~~ comprises reacting a compound of Formula VI with an alkali metal alkoxide corresponding to the formula R<sup>10</sup>OM wherein M is alkali metal and R<sup>10</sup>O- corresponds to the alkoxy substituent of R<sup>1</sup>.

Claim 98. (cancelled) A process ~~as set forth in claim 76 wherein said conversion of a compound of Formula VII to a compound of Formula VI is effected by hydrolyzing a compound of Formula VII.~~

Claim 99. (currently amended) A process as set forth in claim 79 wherein said cyanidation ~~conversion of a compound of Formula VIII to a compound of Formula VII is effected by~~ comprises reacting a source of cyanide ion in the presence of an alkali metal salt with a compound of Formula VIII.

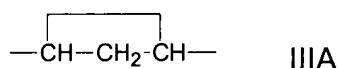
Claim 100. (currently amended) A process as set forth in claim 83 wherein said hydroxylation ~~conversion of a compound of Formula XIII to a compound of Formula VIII is effected by~~ comprises oxidizing a compound of Formula XIII by fermentation in the presence of a microorganism effective for introducing an 11-hydroxy group into said substrate in  $\alpha$ -orientation.

Claim 101. (currently amended) A process for the formation of a compound of Formula IA:



wherein -A-A- represents the group -CH<sub>2</sub>-CH<sub>2</sub>- or -CH=CH-;

-B-B- represents the group -CH<sub>2</sub>-CH<sub>2</sub>- or an alpha- or beta- oriented group  
of Formula IIIA:



R<sup>1</sup> represents an alpha-oriented lower alkoxy carbonyl radical;

X represents two hydrogen atoms or oxo;

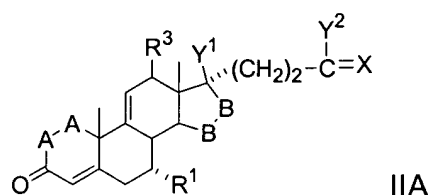
Y<sup>1</sup> and Y<sup>2</sup> together represent the oxygen bridge -O-, or

Y<sup>1</sup> represents hydroxy, and

Y<sup>2</sup> represents hydroxy, lower alkoxy or, if X represents H<sub>2</sub>, also lower  
alkanoyloxy;

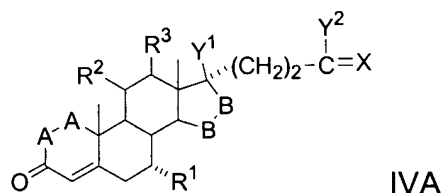
and salts of compounds in which X represents oxo and Y<sup>2</sup> represents  
hydroxy;

the process comprising **epoxidizing** ~~converting~~ a compound of Formula  
IIA to a compound of Formula IA, said compound of Formula IIA having the  
structure:



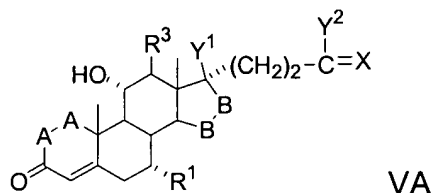
wherein -A-A-, -B-B-, R<sup>1</sup>, R<sup>3</sup>, X, Y<sup>1</sup> and Y<sup>2</sup> are as defined above;

wherein **formation of** said compound of Formula IIA is ~~formed by~~  
**comprises eliminating a leaving group from** ~~converting~~ a compound of  
Formula IVA to a compound of Formula IIA, said compound of Formula IVA  
having the structure:



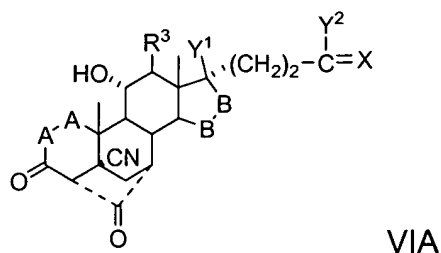
wherein -A-A-, -B-B-,  $R^1$ ,  $R^3$ , X,  $Y^1$  and  $Y^2$  are as defined above, and  $R^2$  represents lower alkylsulfonyloxy or acyloxy; **and**

wherein **formation of** said compound of Formula IVA is ~~formed by~~  
**comprises esterifying or halogenating** ~~converting~~ a compound of Formula VA  
~~to a compound of Formula IVA~~, said compound of Formula VA having the  
structure:



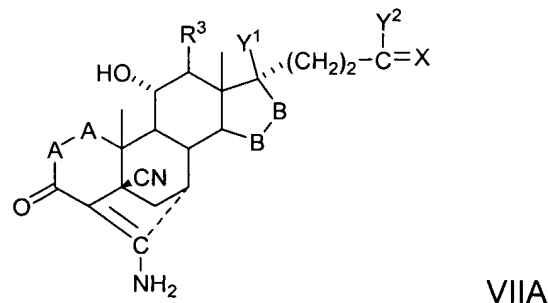
wherein -A-A-, -B-B-,  $R^1$ ,  $R^3$ , X,  $Y^1$  and  $Y^2$  are as defined above;

wherein **formation of** said compound of Formula VA is ~~formed by~~  
**comprises reacting** ~~converting~~ a compound of Formula VIA **with a metal**  
**alkoxide** ~~to a compound of Formula VA~~, said compound of Formula VIA having  
the structure:



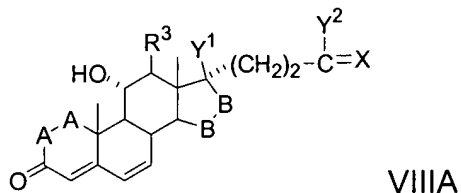
wherein -A-A-, -B-B-,  $R^3$ , X,  $Y^1$  and  $Y^2$  are as defined above; **and**

wherein **formation of** said compound of Formula VIA is ~~formed by~~  
**comprises hydrolyzing** ~~converting~~ a compound of Formula VIIA to a compound  
of Formula VIA, said compound of Formula VIIA having the structure:

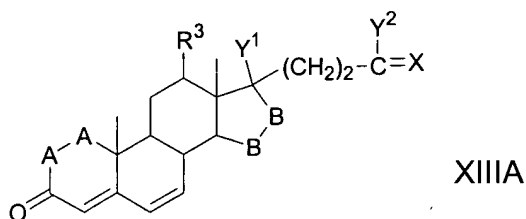


wherein -A-A-, -B-B-,  $R^3$ , X,  $Y^1$  and  $Y^2$  are as defined above; **and**

wherein **formation of** said compound of Formula VIIA is ~~formed by~~  
**cyanidating** ~~converting~~ a compound of Formula VIIIA to ~~form~~ a compound of  
Formula VIIA, said compound of Formula VIIIA having the structure:



wherein -A-A-, -B-B-,  $R^3$ , X,  $Y^1$  and  $Y^2$  are as defined above; **and**  
wherein **formation of** said compound of Formula VIIIA is ~~formed by~~  
**comprises hydroxylating** ~~converting~~ a compound of Formula XIII A to ~~form~~ a  
compound of Formula VIIA, said compound of Formula XIII A having the  
structure:



wherein -A-A-, -B-B-,  $R^3$ , X,  $Y^1$  and  $Y^2$  are as defined above.